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SDN No. RD 0-1107/23

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TO:

SUBJECT: (Informal Progress Report, Contract RD-103)

JANCO) (INC)

This letter constitutes the Forty-Sixth Monthly Report, submitted in compliance with Contract RD-103, covering the month of January, 1960.

TASK 5. DEVELOPMENT OF AS-5 SYSTEM

Major emphasis was spent on construction of System #2 during this reporting period, with seventy-five percent of the work now completed. In addition, many sub-assemblies of the second system have been fully tested by observing their operation while temporarily being plugged in System #1. At the current rate of assembly, it is expected that construction of System #2 will be completed by the middle of February.

Installation of the 400 cps power supplies in both #1 and #2 Systems has been delayed due to poor delivery of special transformers. Latest information from these component suppliers indicates that delivery of these items will be accomplished by the first week of February.

Considerable effort will be expended during the next reporting period for design clean-up, to insure reliable operation of the AS-5 in its field trials.

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A training program is being conducted to instruct four (4) Government Engineers in the theory, operation, and repair of the AS-5 System. The first two weeks of this four week training course have been completed, with the students making excellent progress toward mastering the subject.

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Page 2 of 4**TASK 7. SERVICE AND SUPPORT**

Work on the interim power supply has been completed and the unit has been shipped to the Government.

All future work normally performed under this Task will now be charged against the newly created Service and Support Task, No. 18.

TASK 8. AS-6 DATA TELEMETERING SYSTEM

The Communications Package was sealed and returned to the Government during this reporting period. Late in the reporting period, difficulties were encountered with the interoperation of the Communication Package and the remainder of the AS-6 System. Repairs to the Communication Package were made at the Customer's facility January 29th and 30th by one of Contractor's Engineers.

TASK 10. FABRICATION OF RS-16B

Work on the Instruction Manual is well under way and publication should be started shortly.

TASK 12 RS-16B ANTENNA TUNERS

Following the completion of the prototype model and its shipment for evaluation to the Government, a complete survey was made of the costs necessary to complete this Task. An over-run condition was discovered and now a proposal is being processed for submission to the Government.

Fabrication drawings are now being brought up to date and parts are being ordered for those portions of the equipment which have little or no chance of change. Only a minimum of effort will be expended on this Task until final approval of the design is obtained.

The final report is being completed so that it may be submitted concurrently with delivery of the first model.

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Copy 3 of 8Page 3 of 4**TASK 15. REFURBISHMENT OF RD-59 RECEIVE TERMINAL**

All construction is now complete except for minor assembly and painting of the plug-in r-f front end units. These units have been electrically checked and are performing satisfactorily.

The second punch is mechanically and electrically complete, but remains to be checked out.

Construction of the cryptographic adapter drawer is finished and the electrical checkout is now about fifty percent complete. It should be emphasized that circuits are not in the normal signal path unless a crypto unit is being used.

This Terminal, now designated the AS-4B, should be completely checked out by 8 February.

TASK 16. AS-3 REDESIGN

The production drawings for the AT-3 have been completed. Sample motors for the tape drive mechanism have been ordered for evaluation.

TASK 17. TRANSMITTER-RECEIVER UNITS

The five (5) units, together with the antennas and battery charger, are scheduled to be delivered by the first week of February.

TASK 18. SERVICE AND SUPPORT

This newly created Task will provide continuing Service and Support to all Tasks, replacing Task 7, which is in the process of being closed out.

Approval was received for the repair of one Soroban punch of the AS-4A Receive Data Terminal. Arrangements were made to get a "loaner" during the repair period. All contacts for this repair work were made through the Washington Office.

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Field Unit.



authorized repair of one (1) RS-16B

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GENERAL

On January 18th,



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arrived at Contractor's facility to participate in the training program which is being conducted to provide instruction in the theory, operation and repair of the AS-5 System.

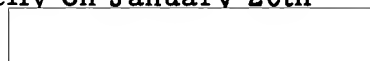
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visited the Government's Test Facility on January 29th and 30th to make adjustments on the AS-6 Field Unit.

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visited here briefly on January 20th to discuss contract matters as they pertain to



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On January 25th, visited this facility. In addition, were here on the 25th and 26th to review all current Tasks and discuss details on the RS-24 System Evaluation proposal.

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